GenCore version 4.5

OM protein - protein search, using sw model

Run on: January 3, 2002, 21:35:19 ; Search time 23.09 Seconds
(without alignments)
899.547 Million cell updates/sec

Title: US-09-497-822A-19
Perfect score: 4912
Sequence: 1 MEVQLGLGRVYPRPPSKTYR.....SVQVPKILSGKVKPIYFHTQ 923

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	4838.5	98.5	918	4	US-09-041-886-11	Sequence 11, Appl
2	2429	49.5	452	4	US-08-764-870-16	Sequence 16, Appl
3	2429	49.5	452	4	US-08-980-115-16	Sequence 16, Appl
4	1261	25.7	933	4	US-08-764-870-14	Sequence 14, Appl
5	1261	25.7	933	4	US-08-980-115-14	Sequence 14, Appl
6	1127	22.9	363	6	5223606-6	Patent No. 5223606
7	1078.5	22.0	984	4	US-08-764-870-15	Sequence 15, Appl
8	1078.5	22.0	984	4	US-08-980-115-15	Sequence 15, Appl
9	1065	21.7	795	1	US-07-716-827C-5	Sequence 5, Appli
10	1042	21.2	777	4	US-08-764-870-13	Sequence 13, Appl
11	1042	21.2	777	4	US-08-980-115-13	Sequence 13, Appl
12	959.5	19.5	356	6	5223606-7	Patent No. 5223606
13	795	16.2	154	4	US-09-041-886-32	Sequence 32, Appl
14	644.5	13.1	534	3	US-08-875-223-8	Sequence 8, Appli
15	644	13.1	284	2	US-08-592-214A-24	Sequence 24, Appl
16	644	13.1	284	3	US-09-149-976-24	Sequence 24, Appl
17	636	12.9	284	3	US-08-659-188-20	Sequence 20, Appl
18	636	12.9	284	3	US-08-655-227-20	Sequence 20, Appl
19	636	12.9	284	3	US-08-655-241-20	Sequence 20, Appl
20	484.5	9.9	596	2	US-08-836-620A-16	Sequence 16, Appl
21	481	9.8	595	4	US-08-764-870-12	Sequence 12, Appl
22	481	9.8	595	4	US-08-980-115-12	Sequence 12, Appl
23	478	9.7	591	2	US-08-836-620A-17	Sequence 17, Appl
24	478	9.7	595	4	US-09-041-886-35	Sequence 35, Appl
25	442.5	9.0	484	2	US-08-836-620A-14	Sequence 14, Appl
26	442.5	9.0	485	2	US-08-836-620A-5	Sequence 5, Appli
27	439	8.9	484	2	US-08-836-620A-13	Sequence 13, Appl
28	439	8.9	485	2	US-08-836-620A-2	Sequence 2, Appli
29	437.5	8.9	485	2	US-08-836-620A-3	Sequence 3, Appli
30	437.5	8.9	548	4	US-09-139-617-1	Sequence 1, Appli
31	428.5	8.7	384	2	US-08-836-620A-15	Sequence 15, Appl
32	418.5	8.5	410	6	5223606-5	Patent No. 5223606
33	400	8.1	418	3	US-09-141-000-6	Sequence 6, Appli
34	400	8.1	435	3	US-09-040-508-2	Sequence 2, Appli
35	400	8.1	458	3	US-09-141-000-4	Sequence 4, Appli
36	385.5	7.8	431	2	US-08-836-620A-19	Sequence 19, Appl
37	385.5	7.8	500	3	US-09-141-000-2	Sequence 2, Appli
38	381	7.8	525	4	US-08-764-870-7	Sequence 7, Appli
39	381	7.8	525	4	US-08-980-115-7	Sequence 7, Appli
40	379	7.7	518	2	US-08-836-620A-18	Sequence 18, Appl
41	358	7.3	533	1	US-07-952-800-2	Sequence 2, Appli
42	338	6.9	467	1	US-08-336-408B-4	Sequence 4, Appli
43	338	6.9	467	5	PCT-US91-00399-4	Sequence 4, Appli
44	337.5	6.9	462	1	US-08-336-408B-2	Sequence 2, Appli
45	337.5	6.9	462	4	US-08-764-870-6	Sequence 6, Appli

ALIGNMENTS

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RESULT 1
US-09-041-886-11
; Sequence 11, Application US/09041886
; Patent No. 6235872
;  GENERAL INFORMATION:
;    APPLICANT:  Bredesen, Dale E.
;    APPLICANT:  Rabizadeh, Sharroz
;    TITLE OF INVENTION:  Proapoptotic Peptides, Dependence
;    TITLE OF INVENTION:  Polypeptides and Methods of Use
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell & Flores LLP
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  United States
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/041,886
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-LJ 2626
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  918 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-041-886-11

  Query Match             98.5%;  Score 4838.5;  DB 4;  Length 918;
  Best Local Similarity   98.7%;  Pred. No. 0;
  Matches  914;  Conservative    0;  Mismatches    1;  Indels   11;  Gaps    2;

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Qy     181 ADLKDILSEASTMQLLQQQQQQEAVSEGSSSGRAREASGAPTSSKDNYLGGTSTISDNAKE 240
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Qy     241 LCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPLAECKGSLLDDS 300
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Qy     598 LCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTE 657
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Qy     718 HVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEY 777
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     713 HVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEY 772

Qy     778 RMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMN 837
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Db     773 RMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMN 832

Qy     838 YIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPE 897
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RESULT   2
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; Sequence 16, Application US/08764870
; Patent No. 6236946
;  GENERAL INFORMATION:
;    APPLICANT:  Scanlan, Thomas S
;    APPLICANT:  Baxter, John D
;    APPLICANT:  Fletterick, Robert J
;    APPLICANT:  Wagner, Richard L
;    APPLICANT:  Kushner, Peter J
;    APPLICANT:  Apriletti, James W
;    APPLICANT:  West, Brian
;    TITLE OF INVENTION:  Nuclear Receptor Ligands and Ligand
;    TITLE OF INVENTION:  Binding Domains
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooley Godward
;      STREET:  Five Palo Alto Square,  3000 El Camino Real
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94306
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/764,870
;      FILING DATE:  13-DEC-1996
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,540
;      FILING DATE:  13-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,543
;      FILING DATE:  13-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,606
;      FILING DATE:  14-DEC-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Nakamura, Jackie N
;      REGISTRATION NUMBER:  35,966
;      REFERENCE/DOCKET NUMBER:  UCAL-246/01US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650)843-5000
;  INFORMATION FOR SEQ ID NO:  16:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  452 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-764-870-16
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  Query Match             49.5%;  Score 2429;  DB 4;  Length 452;
  Best Local Similarity   99.8%;  Pred. No. 1.4e-171;
  Matches  451;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy     652 TTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNEL 711
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RESULT   3
US-08-980-115-16
; Sequence 16, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
;  APPLICANT: Scanlan, Thomas S.
;  APPLICANT: Baxter, John D.
;  APPLICANT: Fletterick, Robert J.
;  APPLICANT: Wagner, Richard L.
;  APPLICANT: Kushner, Peter J.
;  APPLICANT: Apriletti, James W.
;  APPLICANT: West, Brian L.
;  APPLICANT: Shiau, Andrew K.
;  TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
;  FILE REFERENCE: UCAL-246/02US
;  CURRENT APPLICATION NUMBER: US/08/980,115
;  CURRENT FILING DATE: 1997-11-26
;  EARLIER APPLICATION NUMBER: 08/764,870
;  EARLIER FILING DATE: 1996-12-13
;  EARLIER APPLICATION NUMBER: 60/008,606
;  EARLIER FILING DATE: 1995-12-14
;  EARLIER APPLICATION NUMBER: 60/008,543
;  EARLIER FILING DATE: 1995-12-13
;  EARLIER APPLICATION NUMBER: 60/008,540
;  EARLIER FILING DATE: 1995-12-13
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
;   LENGTH: 452
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (184)..(437)
;   OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-16


  Query Match           49.5%;  Score 2429;  DB 4;  Length 452;
  Best Local Similarity  99.8%;  Pred. No. 1.4e-171;
  Matches  451;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     472 GGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWM 531
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Db     121 EGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASS 180

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Db     241 GERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPD 300

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Db     361 DELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMV 420

Qy     892 SVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 923
           |||||||||||||||||||||||||||||||
Db     421 SVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 452


RESULT   4
US-08-764-870-14
; Sequence 14, Application US/08764870
; Patent No. 6236946
;  GENERAL INFORMATION:
;    APPLICANT:  Scanlan, Thomas S
;    APPLICANT:  Baxter, John D
;    APPLICANT:  Fletterick, Robert J
;    APPLICANT:  Wagner, Richard L
;    APPLICANT:  Kushner, Peter J
;    APPLICANT:  Apriletti, James W
;    APPLICANT:  West, Brian
;    TITLE OF INVENTION:  Nuclear Receptor Ligands and Ligand
;    TITLE OF INVENTION:  Binding Domains
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooley Godward
;      STREET:  Five Palo Alto Square,  3000 El Camino Real
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94306
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/764,870
;      FILING DATE:  13-DEC-1996
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,540
;      FILING DATE:  13-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,543
;      FILING DATE:  13-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,606
;      FILING DATE:  14-DEC-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Nakamura, Jackie M
;      REGISTRATION NUMBER:  35,966
;      REFERENCE/DOCKET NUMBER:  UCAL-246/01US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650)843-5000
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  933 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-764-870-14


  Query Match           25.7%;  Score 1261;  DB 4;  Length 933;
  Best Local Similarity  34.1%;  Pred. No. 6.9e-85;
  Matches  346;  Conservative  128;  Mismatches  318;  Indels  224;  Gaps   34;

Qy      38 GPRHPEAASAAP----------------PGA-------------SLLLLQQQQQQQQQ 66
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Db       8 GPRAPHVAGGPPSPEVGSPLLCRPAAGPFPGSQTSDTLPEVSAIPISLDGLLFPRPCQGQ 67
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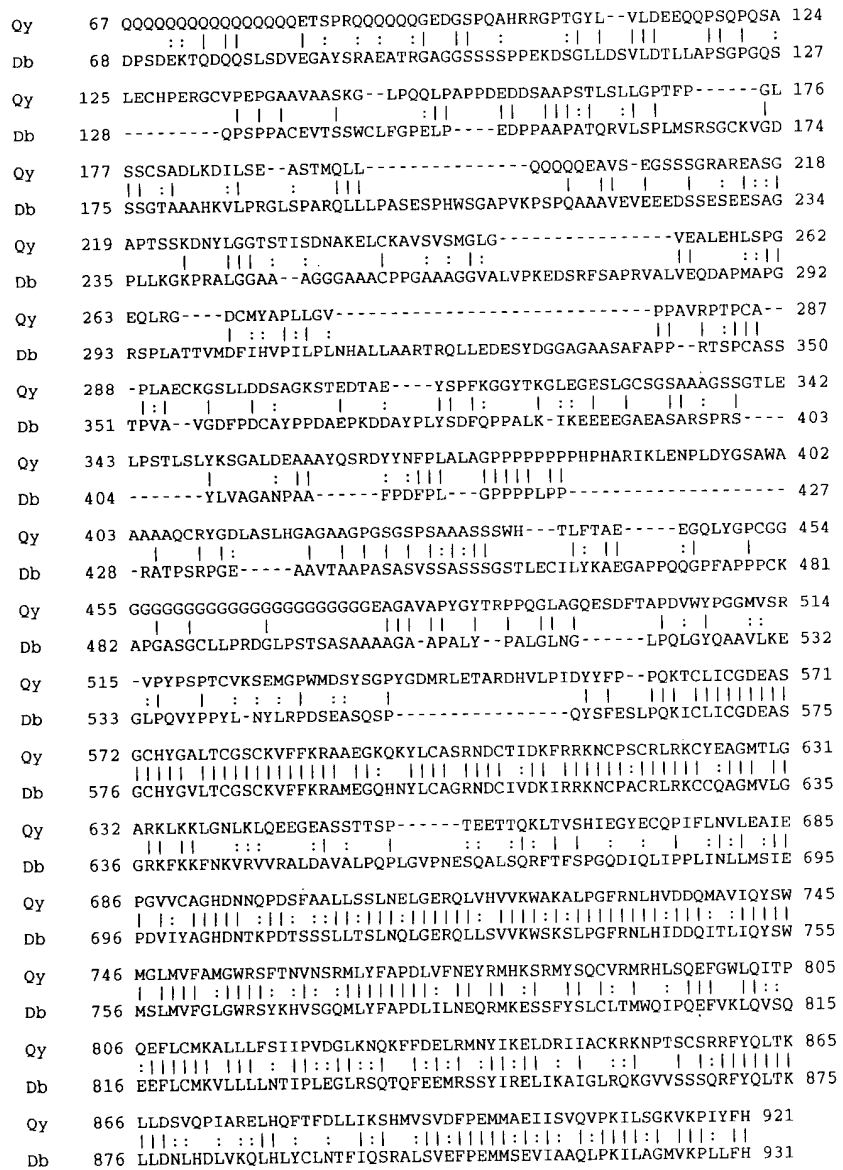

RESULT 5
US-08-980-115-14
; Sequence 14, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S.
; APPLICANT: Baxter, John D.

; APPLICANT: Fletterick, Robert J.
; APPLICANT: Wagner, Richard L.
; APPLICANT: Kushner, Peter J.
; APPLICANT: Apriletti, James W.
; APPLICANT: West, Brian L.
; APPLICANT: Shiau, Andrew K.
; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
; FILE REFERENCE: UCAL-246/02US
; CURRENT APPLICATION NUMBER: US/08/980,115
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 08/764,870
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 60/008,606
; EARLIER FILING DATE: 1995-12-14
; EARLIER APPLICATION NUMBER: 60/008,543
; EARLIER FILING DATE: 1995-12-13
; EARLIER APPLICATION NUMBER: 60/008,540
; EARLIER FILING DATE: 1995-12-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 933
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (659)..(918)
; OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-14

Query Match 25.7%; Score 1261; DB 4; Length 933;
Best Local Similarity 34.1%; Pred. No. 6.9e-85;
Matches 346; Conservative 128; Mismatches 318; Indels 224; Gaps 34;

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Db    482 APGASGCLLPRDGLPSTSASAAAAGA-APALY--PALGLNG------LPQLGYQAAVLKE 532

Qy    515 -VPYPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHVLPIDYYFP--PQKTCLICGDEAS 571
Db    533 GLPQVYPPYL-NYLRPDSEASQSP----------------QYSFESLPQKICLICGDEAS 575

Qy    572 GCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLG 631
Db    576 GCHYGVLTCGSCKVFFKRAMEGQHNYLCAGRNDCIVDKIRRKNCPACRLRKCCQAGMVLG 635

Qy    632 ARKLKKLGNLKLQEEGEASSTTSP------TEETTQKLTVSHIEGYECQPIFLNVLEAIE 685
Db    636 GRKFKKFNKVRVVRALDAVALPQPLGVPNESQALSQRFTFSPGQDIQLIPPLINLLMSIE 695

Qy    686 PGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSW 745
Db    696 PDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITLIQYSW 755

Qy    746 MGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITP 805
Db    756 MSLMVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESSFYSLCLTMWQIPQEFVKLQVSQ 815

Qy    806 QEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTK 865
Db    816 EEFLCMKVLLLLNTIPLEGLRSQTQFEEMRSSYIRELIKAIGLRQKGVVSSSQRFYQLTK 875

Qy    866 LLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFH 921
Db    876 LLDNLHDLVKQLHLYCLNTFIQSRALSVEFPEMMSEVIAAQLPKILAGMVKPLLFH 931
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RESULT 6
5223606-6
;Patent No. 5223606
; APPLICANT: BLAUDIN DE THE, HUGHES;MARCHIO, AGNES;TIOLLAIS,
;PIERRE;DEJEAN, ANNE
; TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED
;PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA
; NUMBER OF SEQUENCES: 11
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/134,130
; FILING DATE: 17-DEC-1987
; PRIOR APPLICATION DATA:
;SEQ ID NO:6:
; LENGTH: 363
5223606-6

ok data but not good

Query Match 22.9%; Score 1127; DB 6; Length 363;
Best Local Similarity 56.0%; Pred. No. 1.5e-75;
Matches 202; Conservative 72; Mismatches 85; Indels 2; Gaps 1;

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Qy    563 CLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRK 622
Db      1 CLICGDEASGCHYGVLTCGSCKVFFKRAMEGQHNYLCAGRNDCIVDKIRRKNCPACRLRK 60

Qy    623 CYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPT--EETTQKLTVSHIEGYECQPIFLNV 680
Db     61 CCQAGMVLGGRKFKKFNKVRVMRALDAVALPAPVGIPNESQRITFSPSQEIQLIPPLINL 120

Qy    681 LEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAV 740
Db    121 LMSIEPDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITL 180

Qy    741 IQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGW 800
Db    181 IQYSWMSLMVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESSFYSLCLTMWQIPQEFVK 240

Qy    801 LQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRF 860
Db    241 LQVSQEEFLCMKVLLLLNTIPLEGLRSQSQFEEMRSSYIRELIKAIGLRQKGVVSSSQRF 300

Qy    861 YQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYF 920
Db    301 YQLTKLLDNLHDLVKQLHLYCLNTFIQSRALSVEFPEMMSEVIAAQLPKILAGMVKPLLF 360

Qy    921 H 921
Db    361 H 361
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RESULT 7
US-08-764-870-15
; Sequence 15, Application US/08764870
; Patent No. 6236946
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
; APPLICANT: Kushner, Peter J
; APPLICANT: Apriletti, James W
; APPLICANT: West, Brian
; TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
; TITLE OF INVENTION: Binding Domains
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward
; STREET: Five Palo Alto Square, 3000 El Camino Real
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/764,870
; FILING DATE: 13-DEC-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,540
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,543
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,606
; FILING DATE: 14-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Nakamura, Jackie N
; REGISTRATION NUMBER: 35,966
; REFERENCE/DOCKET NUMBER: UCAL-246/01US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)843-5000
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 984 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-764-870-15

Query Match 22.0%; Score 1078.5; DB 4; Length 984;
Best Local Similarity 32.8%; Pred. No. 2.2e-71;
Matches 300; Conservative 101; Mismatches 254; Indels 259; Gaps 30;

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Qy     98 SPQAHRRGPTGYL------VLDEEQQP-SQPQSALECHPERGCVPEP-----GAAVAASK 145
Db    238 SPNAENRGSRSHSPAHASNVGSPLSSPLSSMKSSISSPPSHCSVKSPVSSPNNVTLRSSV 297

Qy    146 GLPQQL-------PAPPDEDD-----SAAPSTL-SLLGP-------TFPGLSSCSADLKD 185
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Db    298 SSPANINNSRCSVSSPSNTNNRSTLSSPAASTVGSICSPVNNAFSYTASGTSAGSSTLRD 357

Qy    186 ILSEASTMQLLQQQ----QQEAVSEGSSSGRA----------REASGAPTSSKDNYLGGT 231

Db    358 VVPSPDTQEKGAQEVPFPKTEEVESAISNGVTGQLNIVQYIKPEPDGAFSSS---CLGGN 414

Qy    232 STISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPLAE 291

Db    415 SKINSDS-------SFSVPIKQESTKHSCSGTSFKGN----------PTVNPFP------ 451

Qy    292 CKGSLLDDSAGKSTEDTAEY--SPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSL 349

Db    452 ----FMDGSYFSFMDDKDYYSLSGILGPPVPGFDG---NCEGS----------------- 487

Qy    350 YKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAWAAAAAQCR 409

Db    488 -----------------GFPVGIKQEP-----------------DDGS---------- 501

Qy    410 YGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGG 469

Db    502 YYPEASIPSSAIVGVNSG------GQSFHY----------------------------- 525

Qy    470 GGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGP 529

Db    526 -------RIGAQGTISLSRSARDQSFQH--------------LSSFP-PVNTLVES---- 559

Qy    530 WMDSYSGPYGDMRLETARDHVLPIDYYFP----------------PQKTCLICGDEASG 572

Db    560 WKS-----HGD--LSSRRSDGYPVLEYIPENVSSSTLRSVSTGSSRPSKICLVCGDEASG 612

Qy    573 CHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGA 632

Db    613 CHYGVVTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPACRLQKCLQAGMNLGA 672

Qy    633 RKLKKLGNLK-LQEEGEASS--------TTSPTEETT----------------QKLTVSH 667

Db    673 RKSKKLGKLKGIHEEQPQQQQPPPPPPPPQSPEEGTTYIAPAKEPSVNTALVPQLSTISR 732

Qy    668 IEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALP 727

Db    733 ----ALTPSPVMVLENIEPEIVYAGYDSSKPDTAENLLSTLNRLAGKQMIQVVKWAKVLP 788

Qy    728 GFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ 787

Db    789 GFKNLPLEDQITLIQYSWMCLSSFALSWRSYKHTNSQFLYFAPDLVFNEEKMHQSAMYEL 848

Qy    788 CVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA 847

Db    849 CQGMHQISLQFVRLQLTFEEYTIMKVLLLLSTIPKDGLKSQAAFEEMRTNYIKELRKMVT 908

Qy    848 CKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQV 907

Db    909 KCPNNSGQSWQRFYQLTKLLDSMHDLVSDLLEFCFYTFRESHALKVEFPAMLVEIISDQL 968

Qy    908 PKILSGKVKPIYFH 921

Db    969 PKVESGNAKPLYFH 982
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RESULT 8
US-08-980-115-15
; Sequence 15, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S.
; APPLICANT: Baxter, John D.
; APPLICANT: Fletterick, Robert J.
; APPLICANT: Wagner, Richard L.
; APPLICANT: Kushner, Peter J.
; APPLICANT: Apriletti, James W.
; APPLICANT: West, Brian L.
; APPLICANT: Shiau, Andrew K.

; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
; FILE REFERENCE: UCAL-246/02US
; CURRENT APPLICATION NUMBER: US/08/980,115
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 08/764,870
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 60/008,606
; EARLIER FILING DATE: 1995-12-14
; EARLIER APPLICATION NUMBER: 60/008,543
; EARLIER FILING DATE: 1995-12-13
; EARLIER APPLICATION NUMBER: 60/008,540
; EARLIER FILING DATE: 1995-12-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 984
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (695)..(969)
; OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-15

Query Match 22.0%; Score 1078.5; DB 4; Length 984;
Best Local Similarity 32.8%; Pred. No. 2.2e-71;
Matches 300; Conservative 101; Mismatches 254; Indels 259; Gaps 30;

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Qy     98 SPQAHRRGPTGYL------VLDEEQQP-SQPQSALECHPERGCVPEP-----GAAVAASK 145

Db    238 SPNAENRGSRSHSPAHASNVGSPLSSPLSSMKSSISSPPSHCSVKSPVSSPNNVTLRSSV 297

Qy    146 GLPQQL-------PAPPDEDD-----SAAPSTL-SLLGP-------TFPGLSSCSADLKD 185

Db    298 SSPANINNSRCSVSSPSNTNNRSTLSSPAASTVGSICSPVNNAFSYTASGTSAGSSTLRD 357

Qy    186 ILSEASTMQLLQQQ----QQEAVSEGSSSGRA----------REASGAPTSSKDNYLGGT 231

Db    358 VVPSPDTQEKGAQEVPFPKTEEVESAISNGVTGQLNIVQYIKPEPDGAFSSS---CLGGN 414

Qy    232 STISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCAPLAE 291

Db    415 SKINSDS-------SFSVPIKQESTKHSCSGTSFKGN----------PTVNPFP------ 451

Qy    292 CKGSLLDDSAGKSTEDTAEY--SPFKGGYTKGLEGESLGCSGSAAAGSSGTLELPSTLSL 349

Db    452 ----FMDGSYFSFMDDKDYYSLSGILGPPVPGFDG---NCEGS----------------- 487

Qy    350 YKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAWAAAAAQCR 409

Db    488 -----------------GFPVGIKQEP-----------------DDGS---------- 501

Qy    410 YGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGG 469

Db    502 YYPEASIPSSAIVGVNSG------GQSFHY----------------------------- 525

Qy    470 GGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGP 529

Db    526 -------RIGAQGTISLSRSARDQSFQH--------------LSSFP-PVNTLVES---- 559

Qy    530 WMDSYSGPYGDMRLETARDHVLPIDYYFP----------------PQKTCLICGDEASG 572

Db    560 WKS-----HGD--LSSRRSDGYPVLEYIPENVSSSTLRSVSTGSSRPSKICLVCGDEASG 612

Qy    573 CHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGA 632

Db    613 CHYGVVTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPACRLQKCLQAGMNLGA 672

Qy    633 RKLKKLGNLK-LQEEGEASS--------TTSPTEETT----------------QKLTVSH 667

Db    673 RKSKKLGKLKGIHEEQPQQQQPPPPPPPPQSPEEGTTYIAPAKEPSVNTALVPQLSTISR 732
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Qy    668 IEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALP 727
Db    733 ----ALTPSPVMVLENIEPEIVYAGYDSSKPDTAENLLSTLNRLAGKQMIQVVKWAKVLP 788

Qy    728 GFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ 787
Db    789 GFKNLPLEDQITLIQYSWMCLSSFALSWRSYKHTNSQFLYFAPDLVFNEEKMHQSAMYEL 848

Qy    788 CVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA 847
Db    849 CQGMHQISLQFVRLQLTFEEYTIMKVLLLLSTIPKDGLKSQAAFEEMRTNYIKELRKMVT 908

Qy    848 CKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQV 907
Db    909 KCPNNSGQSWQRFYQLTKLLDSMHDLVSDLLEFCFYTFRESHALKVEFPAMLVEIISDQL 968

Qy    908 PKILSGKVKPIYFH 921
Db    969 PKVESGNAKPLYFH 982
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RESULT 9
US-07-716-827C-5
; Sequence 5, Application US/07716827C
; Patent No. 5215916
; GENERAL INFORMATION:
; APPLICANT: Simons Jr., Stoney S.
; APPLICANT: Yamamoto, K. R.
; APPLICANT: Chakraborti, P. K.
; APPLICANT: Garabedian, M. J.
; TITLE OF INVENTION: SUPER GLUCOCORTICOID RECEPTORS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cushman, Darby & Cushman
; STREET: Eleventh floor, 1615 L Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20036-5601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/716,827C
; FILING DATE: 19910619
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Scott, Watson T.
; REGISTRATION NUMBER: 26,581
; REFERENCE/DOCKET NUMBER: WTS/5683/84453
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)8613000
; TELEFAX: (202)822-8944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 795 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
US-07-716-827C-5

Query Match 21.7%; Score 1065; DB 1; Length 795;
Best Local Similarity 32.0%; Pred. No. 1.6e-70;
Matches 314; Conservative 110; Mismatches 268; Indels 288; Gaps 35;

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Qy     20 RGAFQNLFQSVR---EVIQNPGPRHPEAASAAPPGASLLLL--------QQQQQQQQQQ 68
Db     24 RGSVMDFYKSLRGGATVKVSASSPSVAAASQADSKQQRILLDFSKGSTSNVQQRQQQQQQ 83

Qy     69 QQQQQQQQQQQQQQETSP----------RQQQQQQGED-GSPQAHR----RGPTGYLVL 112
Db     84 QQQQQQQQQQQQQQPGLSKAVSLSMGLYMGETETKVMGNDLGYPQQGQLGLSSGETDFRLL 143

Qy    113 DE-----EQQPSQPQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLS 167
Db    144 EESIANLNRSTSVPENPKSSTSATGC----------ATPTEKE-------- 176

Qy    168 LLGPTFPGLSSCSADLKDILSEASTMQLLQQQQQEAVSEGSSSGRAREASGAPTSSKDNY 227
Db    177 -----FPKTH----------SDASS-----EQQNRKSQTGTNGG----------SVKLY 205

Qy    228 LGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPCA 287
Db    206 PTDQSTF-----DLLKDLEFSAG---------SPSKDTNESPWRSDLL-----IDENLLS 246

Qy    288 PLA----------ECKGSLLDDSAG--KSTEDTAEYSP----------FKGG 317
Db    247 PLAGEDDPFLLEGNTNEDCKPLILPDTKPKIKDTGDTILSSPSSVALPQVKTEKDDFIEL 306

Qy    318 YTKG-LEGESLG---CSGSAAAGSSGTLELPSTLS------LYKSGA------LDEAAAY 361
Db    307 CTPGVIKQEKLGPVYCQ----ASFSGTNIIGNKMSAISVHGVSTSGGQMYHYDMNTASLS 362

Qy    362 QSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAWAAAAAQCRYGDLASLHGAGA 421
Db    363 QQQD--QKPVFNVIPPIP---------VGSEN-------W----NRCQ------------ 388

Qy    422 AGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGGGGGGGGGGGGGGGGGGEAGAV 481
Db    389 ---GSGEDSLTSL----------GALNFP-------------------------GRSV 408

Qy    482 APYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDM 541
Db    409 FSNGYSSP-----GMRPDVSSP----------PS----------SSSAATG-- 434

Qy    542 RLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCAS 601
Db    435 ----------PPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAG 478

Qy    602 RNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQ 661
Db    479 RNDCIIDKIRRKNCPACRYRKCLQAGMNLEARKTKK----KIKGIQQATAGVSQDTSENP 534

Qy    662 KLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVK 721
Db    535 NKTIVPAALPQLTPTLVSLLEVIEPEVLYAGYDSSVPDSAWRIMTTLNMLGGRQVIAAVK 594

Qy    722 WAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHK 781
Db    595 WAKAILGLRNLHLDDQMTLLQYSWMFLMAFALGWRSYRQSSGNLLCFAPDLIINEQRMSL 654

Qy    782 SRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKE 841
Db    655 PCMYDQCKHMLFVSSELQRLQVSYEEYLCMKTLLLLSSVPKEGLKSQELFDEIRMTYIKE 714

Qy    842 LDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAE 901
Db    715 LGKAIVKREGNSSQNWQRFYQLTKLLDSMHEVVENLLTYCFQTFLDKTM-SIEFPEMLAE 773

Qy    902 IISVQVPKILSGKVKPIYFH 921
Db    774 IITNQIPKYSNGNIKKLLFH 793

RESULT 10
US-08-764-870-13
; Sequence 13, Application US/08764870
; Patent No. 6236946
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
```

```
;    APPLICANT:  Kushner, Peter J
;    APPLICANT:  Apriletti, James W
;    APPLICANT:  West, Brian
;    TITLE OF INVENTION:  Nuclear Receptor Ligands and Ligand
;    TITLE OF INVENTION:  Binding Domains
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooley Godward
;      STREET:  Five Palo Alto Square,  3000 El Camino Real
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94306
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/764,870
;      FILING DATE:  13-DEC-1996
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,540
;      FILING DATE:  13-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,543
;      FILING DATE:  13-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/008,606
;      FILING DATE:  14-DEC-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Nakamura, Jackie N
;      REGISTRATION NUMBER:  35,966
;      REFERENCE/DOCKET NUMBER:  UCAL-246/01US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650)843-5000
;  INFORMATION FOR SEQ ID NO:  13:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  777 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-764-870-13
```

Query Match 21.2%; Score 1042; DB 4; Length 777;
Best Local Similarity 32.6%; Pred. No. 8e-69;
Matches 298; Conservative 95; Mismatches 255; Indels 266; Gaps 31;

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Qy    121 PQSALECHPERGCVPE------PGAAVAASKGLPQQLPA---------------------- 153
          | | |    ||| | :       || |  |    |     |
Db     15 PSSVLA--QERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPKGSVSN 72

Qy    154 --PPDEDDSAAPSTLSLLGPT----------FP-----GLSSCSADLKDILSEASTMQLL 196
            ||    : : |    :| |           ||      |||   |||  | | |   |
Db     73 AQQPDLSKAVSLSMGLYMGETETKVMGNDLGFPQQGQISLSSGETDLK--LLEESIANL- 129

Qy    197 QQQQQEAVSEGSSSGRAREASGAPT----------SSKDNYL-GGTSTISDNAK----- 239
             :  :| |   |  :   | |||           ||:  :| | | |   | |
Db    130 --NRSTSVPENPKSSASTAVSAAPTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTD 187

Qy    240 ----ELCKAVSVSMGLGVEALEHLSPGEQL-----RGD------CMYAPLLGVPPAVRPT 284
              :: : :  | |         |||::      | |      |: :|| |
Db    188 QSTFDILQDLEFSSG---------SPGKETNESPWRSDLLIDENCLLSPLAGE------- 231

Qy    285 PCAPLAECKGSLLDDS---AGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTL 341
                      |||    | | ||                        |          |
Db    232 ------------DDSFLLEGNSNED--------------------CK---------PL 248

Qy    342 ELPSTLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAW 401
          || |    |                 |  | |: |     |     ::| |
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Db    249 ILPDTKPKIKD--------------NGDLVLSSPSNVTLP-----QVKTEKEDFIELCT 288

Qy    402 AAAAAQCRYGDL---ASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGG 458
              | : | :   ||  ||   |      :  :: | | : |:
Db    289 PGVIKQEKLGTVYCQASFPGANIIG------NKMSAISVHGVSTS-------------- 327

Qy    459 GGGGGGGGGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDV----------W-- 506
                            ||:      | |      |: |:      :|          |
Db    328 ---------------GGQM-----YHYDMNTASLSQQQDQKPIFNVIPPIPVGSENWNR 366

Qy    507 ----------------YPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHV 550
                         :||  |    | ||:     | |  |  | |       |
Db    367 CQGSGDDNLTSLGTLNFPGRTVFSNGYSSPS-----MRP--DVSSPPSSSSTATTG---- 415

Qy    551 LPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKF 610
                ||  | ||:| |||||||||| |||||||||||||| ||:  |||| |||| |||
Db    416 -------PPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKI 468

Qy    611 RRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQ---KLTVSH 667
          ||||||:|| ||| :||| | ||| ||      : :|   :||  ::||::     |:
Db    469 RRKNCPACRYRKCLQAGMNLEARKTKK------KIKGIQQATTGVSQETSENPGNKTIVP 522

Qy    668 IEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALP 727
              :  |  :::|| ||| |: ||:|:: |||   ::::|| || ||::  |||||||:|
Db    523 ATLPQLTPTLVSLLEVIEPEVLYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIP 582

Qy    728 GFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ 787
          |||||||:|||| ::||||| || ||:||||:   :: :| ||||| || ||     || |
Db    583 GFRNLHLDDQMTLLQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQ 642

Qy    788 CVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA 847
          |  | ::| |   ||:: :|:|||| ||| | :| ||||:|: |||:|| ||||| : |
Db    643 CKHMLYVSSELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIV 702

Qy    848 CKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQV 907
            :  | :   :||||||||||||:  :   |  : |   :   | |::||||:||||: |:
Db    703 KREGNSSQNWQRFYQLTKLLDSMHEVVENLLNYCFQTFLDKTM-SIEFPEMLAEIITNQI 761

Qy    908 PKILSGKVKPIYFH 921
          ||  :| :| : ||
Db    762 PKYSNGNIKKLLFH 775
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RESULT 11
US-08-980-115-13
; Sequence 13, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
;  APPLICANT: Scanlan, Thomas S.
;  APPLICANT: Baxter, John D.
;  APPLICANT: Fletterick, Robert J.
;  APPLICANT: Wagner, Richard L.
;  APPLICANT: Kushner, Peter J.
;  APPLICANT: Apriletti, James W.
;  APPLICANT: West, Brian L.
;  APPLICANT: Shiau, Andrew K.
;  TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
;  FILE REFERENCE: UCAL-246/02US
;  CURRENT APPLICATION NUMBER: US/08/980,115
;  CURRENT FILING DATE: 1997-11-26
;  EARLIER APPLICATION NUMBER: 08/764,870
;  EARLIER FILING DATE: 1996-12-13
;  EARLIER APPLICATION NUMBER: 60/008,606
;  EARLIER FILING DATE: 1995-12-14
;  EARLIER APPLICATION NUMBER: 60/008,543
;  EARLIER FILING DATE: 1995-12-13
;  EARLIER APPLICATION NUMBER: 60/008,540
;  EARLIER FILING DATE: 1995-12-13
;  NUMBER OF SEQ ID NOS: 17
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
;  LENGTH: 777
;  TYPE: PRT
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;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: DOMAIN
;   LOCATION: (506)..(762)
;   OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-13


  Query Match             21.2%;  Score 1042;  DB 4;  Length 777;
  Best Local Similarity   32.6%;  Pred. No. 8e-69;
  Matches  298;  Conservative   95;  Mismatches  255;  Indels  266;  Gaps   31;

Qy    121 PQSALECHPERGCVPE------PGAAVAASKGLPQQLPA---------------------- 153
          | | |    ||| | :        || |  |    |    |
Db     15 PSSVLA--QERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPKGSVSN 72

Qy    154 --PPDEDDSAAPSTLSLLGPT----------FP-----GLSSCSADLKDILSEASTMQLL 196
             ||   : : |    :| |           ||      |||   |||  | | |   |
Db     73 AQQPDLSKAVSLSMGLYMGETETKVMGNDLGFPQQGQISLSSGETDLK--LLEESIANL- 129

Qy    197 QQQQQEAVSEGSSSGRAREASGAPT----------SSKDNYL-GGTSTISDNAK----- 239
          :  :| |    |  :   | |||          ||:  :| | | |    | |
Db    130 --NRSTSVPENPKSSASTAVSAAPTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTD 187

Qy    240 ----ELCKAVSVSMGLGVEALEHLSPGEQL-----RGD------CMYAPLLGVPPAVRPT 284
              :: : :  | |         |||::      | |      |: :|| |
Db    188 QSTFDILQDLEFSSG---------SPGKETNESPWRSDLLIDENCLLSPLAGE------- 231

Qy    285 PCAPLAECKGSLLDDS---AGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSAAAGSSGTL 341
                    |||    | | ||                    |          |
Db    232 ------------DDSFLLEGNSNED--------------------CK---------PL 248

Qy    342 ELPSTLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAW 401
           || |    |                  |  | |: |      |     ::| |
Db    249 ILPDTKPKIKD--------------NGDLVLSSPSNVTLP-----QVKTEKEDFIELCT 288

Qy    402 AAAAAQCRYGDL---ASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGQLYGPCGGGGGG 458
              | : |  :   ||  ||   |      :  :: | | : |:
Db    289 PGVIKQEKLGTVYCQASFPGANIIG------NKMSAISVHGVSTS-------------- 327

Qy    459 GGGGGGGGGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQESDFTAPDV----------W-- 506
                       ||:      | |      |: |:      :|          |
Db    328 ----------------GGQM-----YHYDMNTASLSQQQDQKPIFNVIPPIPVGSENWNR 366

Qy    507 ----------------YPGGMVSRVPYPSPTCVKSEMGPWMDSYSGPYGDMRLETARDHV 550
                          :||  |    | ||:      | |  |  | |      |
Db    367 CQGSGDDNLTSLGTLNFPGRTVFSNGYSSPS-----MRP--DVSSPPSSSSTATTG---- 415

Qy    551 LPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKF 610
             || | ||:| |||||||| ||||||||||||| ||:  |||| |||| |||
Db    416 -------PPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKI 468

Qy    611 RRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQ---KLTVSH 667
          ||||||:|| ||| :||| | ||| ||       : :|   :||  ::||::      |:
Db    469 RRKNCPACRYRKCLQAGMNLEARKTKK------KIKGIQQATTGVSQETSENPGNKTIVP 522

Qy    668 IEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALP 727
             :  |  :::|| ||| |: ||:|:: |||   ::::|| || ||::  ||||||:|
Db    523 ATLPQLTPTLVSLLEVIEPEVLYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIP 582

Qy    728 GFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQ 787
          ||||||:|||| ::||||| || ||:||||:   :: :| |||||: || ||    || |
Db    583 GFRNLHLDDQMTLLQYSWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQ 642

Qy    788 CVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIA 847
          |  | ::| |   ||:: :|:|||| ||| | :| ||||:|: |||:|| ||||| : |
Db    643 CKHMLYVSSELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIV 702

Qy    848 CKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQV 907
           :  | :   :||||||||||:  :   |  : |   :   | |::||||:||||: |:
Db    703 KREGNSSQNWQRFYQLTKLLDSMHEVVENLLNYCFQTFLDKTM-SIEFPEMLAEIITNQI 761

Qy    908 PKILSGKVKPIYFH 921

          ||  :| :| : ||
Db    762 PKYSNGNIKKLLFH 775


RESULT  12
5223606-7
;Patent No. 5223606
;    APPLICANT:  BLAUDIN DE THE, HUGHES;MARCHIO, AGNES;TIOLLAIS,
;PIERRE;DEJEAN, ANNE
;    TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED
;PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA
;    NUMBER OF SEQUENCES: 11
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/134,130
;      FILING DATE: 17-DEC-1987
;    PRIOR APPLICATION DATA:
;SEQ ID NO:7:
;      LENGTH: 356
5223606-7


  Query Match             19.5%;  Score 959.5;  DB 6;  Length 356;
  Best Local Similarity   52.1%;  Pred. No. 3.4e-63;
  Matches  189;  Conservative   62;  Mismatches   99;  Indels   13;  Gaps    6;

Qy    563 CLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRK 622
          ||:| |||||||||| |||||||||||||| ||:  |||| |||| ||| |||||||:|| ||
Db      1 CLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPACRYRK 60

Qy    623 CYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQ---KLTVSHIEGYECQPIFLN 679
             | :||| | ||| ||       : :|   :||  ::||::      |:       :  | ::
Db     61 CLQAGMNLEARKTKK------KIKGIQQATTGVSQETSENPGNKTIVPATLPQLTPTLVS 114

Qy    680 VLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMA 739
          :|| ||| |: || |:: |||   ::::|| || ||::  |||||||:|||||||:|||
Db    115 LLEVIEPEVLYAGTDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQNT 174

Qy    740 VIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFG 799
          ::|||| ||  |:||||:   :: :| |||||: || ||    || ||  | ::| |
Db    175 LLQYSWMFLMA-ALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSELH 233

Qy    800 WLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCS-R 858
          ||:: :|:|||| ||| | :| ||||:|: |||:|| ||||| : |  ||:  :| : :
Db    234 RLQVSYEEYLCMKYLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIV-KREGLSSQNWQ 292

Qy    859 RFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPI 918
          |||||||||||:  :   |  : |   :   | |::||||:||||: |:||  :| :| :
Db    293 RFYQLTKLLDSMHEVVENLLNYCFQTFLDKTM-SIEFPEMLAEIITNQIPKYSNGNIKKL 351

Qy    919 YFH 921
            ||
Db    352 LFH 354


RESULT  13
US-09-041-886-32
; Sequence 32, Application US/09041886
; Patent No. 6235872
;  GENERAL INFORMATION:
;    APPLICANT:  Bredesen, Dale E.
;    APPLICANT:  Rabizadeh, Sharroz
;    TITLE OF INVENTION:  Proapoptotic Peptides, Dependence
;    TITLE OF INVENTION:  Polypeptides and Methods of Use
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell & Flores LLP
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  United States
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
```

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;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/041,886
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-LJ 2626
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  32:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  154 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-09-041-886-32


  Query Match             16.2%;  Score 795;  DB 4;  Length 154;
  Best Local Similarity   95.1%;  Pred. No. 1.5e-51;
  Matches  154;  Conservative    0;  Mismatches    0;  Indels    8;  Gaps    1;

Qy       1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQ 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLL--- 57

Qy      61 QQQQQQQQQQQQQQQQQQQQQQETSPRQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQ 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      58 -----QQQQQQQQQQQQQQQQQETSPRQQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQ 112

Qy     121 PQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAA 162
           |||||||||||||||||||||||||||||||||||||||||||
Db     113 PQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAA 154


RESULT  14
US-08-875-223-8
; Sequence 8, Application US/08875223
; Patent No. 6127175
;  GENERAL INFORMATION:
;    APPLICANT:  VIGNE, Emmanuelle
;    APPLICANT:  PERRICAUDET, Michel
;    APPLICANT:  DEDIEU, Jean-Francois
;    APPLICANT:  ORSINI, Cecile
;    APPLICANT:  YEH, Patrice
;    APPLICANT:  LATTA, Martine
;    APPLICANT:  PROST, Edouard
;    TITLE OF INVENTION:  CELLS FOR THE PRODUCTION OF RECOMBINANT
;    TITLE OF INVENTION:  ADENOVIRUSES
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Rhone-Poulenc Rorer Inc.
;      STREET:  500 Arcola Road, Mailstop 3C43
;      CITY:  Collegeville
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19426
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/875,223
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR 95/00747
;      FILING DATE:  20-JAN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR 95/06532
;      FILING DATE:  01-JUN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR 95/10541
;      FILING DATE:  08-SEP-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  FR WO FR96/00088
;      FILING DATE:  19-JAN-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Fehlner Esq., Paul F.
;      REGISTRATION NUMBER:  35,135
;      REFERENCE/DOCKET NUMBER:  ST95005G1-US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (610) 454-3839
;      TELEFAX:  (610) 454-3808
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  534 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-875-223-8


  Query Match             13.1%;  Score 644.5;  DB 3;  Length 534;
  Best Local Similarity   51.3%;  Pred. No. 1.1e-39;
  Matches  122;  Conservative   46;  Mismatches   69;  Indels    1;  Gaps    1;

Qy     684 IEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQY 743
           ||| |: ||:|:: |||   ::::|| || ||::  ||||||:||||||:|||| ::||
Db       3 IEPEVLYAGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQY 62

Qy     744 SWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQI 803
           ||| || ||:|||||:   :: :| |||||: || ||    || ||  | ::| |   ||:
Db      63 SWMFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSELHRLQV 122

Qy     804 TPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQL 863
           : :|:|||| ||| | :| ||||:|: |||:|| |||||: | :  : | :   :|||||
Db     123 SYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWQRFYQL 182

Qy     864 TKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFH 921
           ||||||:  :   |  : |   :   | |::||||:||||: |:||  :| :| : ||
Db     183 TKLLDSMHEVVENLLNYCFQTFLDKTM-SIEFPEMLAEIITNQIPKYSNGNIKKLLFH 239


RESULT  15
US-08-592-214A-24
; Sequence 24, Application US/08592214A
; Patent No. 5811536
;  GENERAL INFORMATION:
;    APPLICANT:  Yanofsky, Martin F.
;    TITLE OF INVENTION:  Cauliflower Floral Meristem Identify
;    TITLE OF INVENTION:  Genes and Methods of Using Same
;    NUMBER OF SEQUENCES:  33
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell and Flores
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  United States
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/592,214A
;      FILING DATE:  26-JAN-1996
;      CLASSIFICATION:  536
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; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-UD 1927
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 284 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-592-214A-24

Query Match 13.1%; Score 644; DB 2; Length 284;
Best Local Similarity 44.4%; Pred. No. 4.9e-40;
Matches 127; Conservative 56; Mismatches 97; Indels 6; Gaps 2;

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Qy    636 KKLGNLKLQEEGEASSTTSPTEETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDN 695
          ||:  ::    | :  |:    :|     :  :       |  :::|| ||| |: ||:|:
Db      3 KKIKGIQQATAGVSQDTSENPNKTIVPAALPQL-----TPTLVSLLEVIEPEVLYAGYDS 57

Qy    696 NQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGW 755
          : |||   ::::|| || ||::  ||||||: | ||||:|||| ::|||||  || ||:||
Db     58 SVPDSAWRIMTTLNMLGGRQVIAAVKWAKAILGLRNLHLDDQMTLLQYSWMFLMAFALGW 117

Qy    756 RSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALL 815
          ||:   :  :| ||||||: || ||    || ||  |  :| |   ||:: :|:|||| ||
Db    118 RSYRQSSGNLLCFAPDLIINEQRMSLPCMYDQCKHMLFVSSELQRLQVSYEEYLCMKTLL 177

Qy    816 LFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIAR 875
          | | :| :|||:|: |||:|| |||||  : |  :  | :   :||||||||||:  :
Db    178 LLSSVPKEGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWQRFYQLTKLLDSMHEVVE 237

Qy    876 ELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFH 921
            |  : |   :   | |::||||:||||: |:||  :| :| : ||
Db    238 NLLTYCFQTFLDKTM-SIEFPEMLAEIITNQIPKYSNGNIKKLLFH 282
```

Search completed: January 3, 2002, 23:06:44
Job time: 5485 sec